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PART 1 OF 2

U.S. DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

SELECTED WATER RESOURCES ABSTRACTS

ANNUAL CUMULATED INDEXES TO VOLUME 20, 1987

PART 1 AUTHOR
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As the Nation's principal conservation agency, the Department of the Interior has responsibility for most of our nationally owned public lands and natural resources. This includes fostering the wisest use of our land and water resources, protecting our fish and wildlife, preserving the environmental and cultural values of our national parks and historical places, and providing for the enjoyment of life through outdoor recreation. The Department assesses our energy and mineral resources and works to assure that their development is in the best interests of all our people. The Department also has a major responsibility for American Indian reservation communities and for people who live in Island Territories under U.S. administration.

PREFACE

Selected Water Resources Abstracts, a monthly journal, includes abstracts of current and earlier pertinent monographs, journal articles, reports, and other publication formats. These documents cover water resources as treated in the life, physical, and social sciences and the related engineering and legal aspects of the characteristics, supply condition, conservation, control, use, or management of water resources. Each abstract includes a full bibliographic citation and a set of descriptors which are listed in the **Water Resources Thesaurus.** The abstract entries are classified into 10 fields and 60 groups similar to the water resources research categories established by the Committee on Water Resources Research of the then Federal Council for Science and Technology.

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Comments and suggestions concerning the contents and arrangement of this bulletin are welcome.

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PART 2 OF 2

SELECTED WATER RESOURCES ABSTRACTS

ANNUAL CUMULATED INDEXES TO VOLUME 20, 1987

PART 2 SUBJECT

U.S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SELECTED WATER RESOURCES ABSTRACTS (SWRA) is produced by the Geological Survey, U.S. Department of the Interior, and published monthly by the National Technical Information Service (NTIS), U.S. Department of Commerce.

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SELECTED WATER RESOURCES ABSTRACTS

A monthly publication of the Geological Survey,
U.S. Department of the Interior

ANNUAL CUMULATED INDEXES TO VOLUME 20, 1987

PART 2 SUBJECT

The Secretary of the Interior has determined that the publication of this periodical is necessary in the transaction of the public business required by law of this Department. Use of funds for printing this periodical has been approved by the Office of Management and Budget through September 30, 1988.

As the Nation's principal conservation agency, the Department of the Interior has responsibility for most of our nationally owned public lands and natural resources. This includes fostering the wisest use of our land and water resources, protecting our fish and wildlife, preserving the environmental and cultural values of our national parks and historical places, and providing for the enjoyment of life through outdoor recreation. The Department assesses our energy and mineral resources and works to assure that their development is in the best interests of all our people. The Department also has a major responsibility for American Indian reservation communities and for people who live in Island Territories under U.S. administration.

PREFACE

Selected Water Resources Abstracts, a monthly journal, includes abstracts of current and earlier pertinent monographs, journal articles, reports, and other publication formats. These documents cover water resources as treated in the life, physical, and social sciences and the related engineering and legal aspects of the characteristics, supply condition, conservation, control, use, or management of water resources. Each abstract includes a full bibliographic citation and a set of descriptors which are listed in the **Water Resources Thesaurus.** The abstract entries are classified into 10 fields and 60 groups similar to the water resources research categories established by the Committee on Water Resources Research of the then Federal Council for Science and Technology.

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Comments and suggestions concerning the contents and arrangement of this bulletin are welcome.

Water Resources Scientific
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U.S. Geological Survey
MS 425 National Center
Reston, VA 22092

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Ra-226 Concentrations in Otter, Lutra Canadensis, Trapped Near Uranium Tailings at Elliot Lake, Ontario,
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High Basin of the Ouanne: Consequences of Transformations of the Farmland on the Water Storage Capacity of the Soil, (Le Haut Bassin de l'Ouanne: Consequences des Transformations du Paysage Agraire sur la Capacite de Stockage de l'eau dans les Sols),
W87-01971 2003 4C

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Dredging of Rapids for Timber-Floating in Finland and Its Effects on River-Spawning Fish Stocks,
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Effects of Sewage Outfalls on Intertidal Ecosystems in Kuwait,
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Quantitative Distribution of the Meiofauna in the Vicinity of Marseilles' Sewage Outfall (Distribution quantitative de la meiofaune dans l'air d'epandage de l'egout de Marseille),
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W87-08077 2010 5E

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W87-01422 2002 8C

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W87-03221 2004 8A

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W87-03232 2004 5G

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Grass Roots Approach to Spillways
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Kinematic Overland Flow: Generalization of Rose's Approximate Solution,
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Sediment Yield from Small and Medium Watersheds,
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Soil Loss and Time to Equilibrium for Rill and Channel Erosion,
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Laboratory Experiment on the Role of Grass for Infiltration and Runoff Processes,
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Steady-State Analysis of Infiltration and Overland Flow for Spatially-Varied Hillslopes,
W87-08974 2011 2E

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Aggradation in Rivers due to Overloading - Analytical Approaches,
W87-03419 2005 2J

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Overpressure Peak in Dual Horizontal Francis Turbines: Industrial Experiments Results, (Pic de Surpression des Francis Horizontales Doubles: Resultats d'Experiences Industrielles),
W87-02578 2004 8C

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Overspeeding Processes in Reversible Units of Pumped-Storage Stations,
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Effects of Experimental Acid Precipitation and Liming on Vigor, Species Abundance, and Mineral Nutrition of Ground Vegetation in a Norway Spruce Stand (Auswirkungen von Saurer Beregnung und Kalkung auf die Vitalitaet, Artenmaechtigkeit und Naehrstoffversorgung der Bodenvegetation eines Fichtenbestandes),
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Effect of Nitrate on Biogenic Sulfide Production,
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Anaerobic Methane Oxidation Rates at the Sulfate-Methane Transition in Marine Sediments from Kattegat and Skagerrak (Denmark),
W87-00372 2001 2L

Effect of Redox Changes on the Magnetic Susceptibility of Sediments from a Seasonally Anoxic Lake,
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Redox Potential: Its Measurement and Importance in Water Systems,
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Benzo(a)pyrene Oxidation and Microsomal Enzyme Activity in the Mussel (Mytilus edulis) and Other Bivalve Mollusc Species from the Western North Atlantic,
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Photooxidation of Thioether Pesticides on Soil Surfaces,
W87-01117 2002 5B

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W87-01118 2002 5B

Dissolved Hydrocarbon Metabolism: The Concentration-Dependent Kinetics of Toluene Oxidation in Some North American Estuaries,
W87-01976 2003 2L

Factors Affecting Oxidation-Reduction Processes in an Oxisol with a Seasonal Water Table,
W87-02038 2003 2K

Photodynamic Inactivation of E. Coli by Immobilized or Coated Dyes on Insoluble Supports,
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W87-02404 2003 5B

Effect of O2 Concentration on Dark H2 Oxidation in Whole Cells of a Marine Sulfur Photosynthetic Bacterium (Chromatium sp. Strain Miami PBS 1071),
W87-03211 2004 2L

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Manganese Oxidation by Spores and Spore Coats of a Marine Bacillus Species,
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Model of Sulphate Production in a Cap Cloud and Subsequent Turbulent Deposition onto the Hill Surface,
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Evidence for the Participation of Dissimilatory Processes in Maintaining High Carbon Fluxes Through the Photosynthetic Carbon Reduction and Oxidation Cycles in Water Stressed Phaseolus Leaves,
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Photooxidant Activity in Natural Waters,
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Abiotic Chemical Changes in Water,
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W87-07829 2010 5D

Factors Controlling the Growth Form of Spartina alterniflora: Feedbacks between Above-Ground Production, Sediment Oxidation, Nitrogen and Salinity,
W87-07964 2010 2L

Interrelationships of Algae and Bacteria During Methane Oxidation,
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W87-08950 2011 6E

Kinetics and Mechanisms of Hypochlorite Oxidation of alpha-Amino Acids at the Time of Water Disinfection (Cinetiques et Mechanismes de l'Action Oxydative de l'Hypochlorite sur les Acides alpha-Amines lors de la Desinfection des Eaux),
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Free Amino Acids in Marine Rains: Evidence for Oxidation and Potential Role in Nitrogen Cycling,
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Wet Air Oxidation of Anaerobically Digested Sludge,
W87-09949 2012 5D

Nitrogen Removal in an Oxidation Ditch with Intermittent Aeration,
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Parameters for the Operation of Bacterial Thiosalt Oxidation Ponds,
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Algal Separation by the Lime-Seawater Process,
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W87-02666 2004 5D

Seawater Induced Algal Flocculation,
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Environmental Effects on Gross Production and Respiration in a Facultative Oxidation Pond,
W87-05510 2007 5D

Algal Populations and Characteristics of Oxygen Exchange of Effluent Samples from a Facultative Oxidation Pond,
W87-05511 2007 5D

Heavy Metal, Bacterial and Viral Contamination of Sewage Sludges in Oxidation Ponds (Charges en Metaux Lourds, Bacteries et Virus, Presentes dans les Boues d'Une Station d'Epuration par Lagunage Naturel),
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W87-08903 2011 5A

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W87-07829 2010 5D

Control and Treatment of Residual Water in Mining (Control y Tratamiento de Aguas Residuales en Mineria),
W87-09888 2012 5B

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Effect of Redox Changes on the Magnetic Susceptibility of Sediments from a Seasonally Anoxic Lake,
W87-00479 2001 2H

Inexpensive Flow-through Cell and Measurement System for Monitoring Selected Chemical Parameters in Ground Water,
W87-02059 2003 7B

Effects of Vascular and Nonvascular Macrophytes on Sediment Redox and Solute Dynamics,
W87-02100 2003 2H

Denitrification in Groundwaters, Principles and Methods for Its Identification: A Review (La Denitrification dans les Eaux Souterraines, Principes et Methodes de son Identification: Une Revue),
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Conceptual Models for Transport at a Redox Boundary,
W87-06128 2008 2K

Redox-Related Geochemistry in Lakes: Alkali Metals, Alkaline-Earth Elements, and 137-Cs,
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Shifts in the Intracellular ATP Pools of Immobilised Nostoc Cells (Cyanobacteria) Induced by Water Stress,
W87-01771 2003 2H

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Pilot Plant Studies of Two Processes for Oxidation of Aqueous Sulfide: Paradox Valley Unit, Colorado River Basin Salinity Control Project,
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Coordinative Interactions Between Soil Solids and Water - An Aquatic Chemist's Point of View,
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Factors Affecting Oxidation-Reduction Processes in an Oxisol with a Seasonal Water Table,
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Microprofiles of Oxygen in Epiphyte Communities on Submerged Macrophytes,
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Vertical Distribution of Mesoplankton in the Open Area of the Black Sea,
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Microoxic-Anoxic Niche of Beggiatoa spp.: Microelectrode Survey of Marine and Freshwater Strains,
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Simple and Inexpensive Monitor for Recording Oxygen and Temperature in Lakes and Reservoirs,
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W87-02010 2003 5B

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W87-07595 2010 2H

Symbiosis between Salamander Eggs and Green Algae: Microelectrode Measurements inside Eggs Demonstrate Effect of Photosynthesis on Oxygen Concentration,
W87-07904 2010 2H

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W87-07966 2010 5D

Influence of Temperature, Salinity, and Oxygen on the Cadmium Balance of Mussels Mytilus edulis,
W87-08029 2010 2L

Photosynthesis and Light Adaptation in Epiphyte-Macrophyte Associations Measured by Oxygen Microelectrodes,
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W87-00637 2001 2E

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W87-03435 2005 2L

Net Community Production and Hypolimnetic Nutrient Regeneration in a Michigan Lake,
W87-07950 2010 2H

Role of Gas Exchange in the Inorganic Carbon, Oxygen, and 222Rn Budgets of the Amazon River,
W87-08871 2011 2H

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Slack Tide Oxygen Balance Model,
W87-02889 2004 5B

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W87-00429 2001 2L

OXYGEN DEFICIT RATIO

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W87-01921 2003 5B

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W87-01156 2002 5C

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W87-02822 2004 5G

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W87-07059 2009 5G

OXYGEN DEPLETION
Oxygen Resources of the Hypolimnion of Ionically Enriched Onondaga Lake, NY, U.S.A.,
W87-00351 2001 5B

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W87-01144 2002 2L

Effect of Ambient Oxygen Concentration on Measurements of Sediment Oxygen Consumption,
W87-07872 2010 7B

OXYGEN DIFFUSION
Oxygen Diffusion and Microbial Activity in the Composting of Dehydrated Sewage Cakes,
W87-09923 2012 5E

OXYGEN DYNAMICS
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W87-01805 2003 2H

OXYGEN EXCHANGE
Algal Populations and Characteristics of Oxygen Exchange of Effluent Samples from a Facultative Oxidation Pond,
W87-05511 2007 5D

OXYGEN ISOTOPES
Groundwater Recharge Estimation Using Chloride, Deuterium and Oxygen-18 Profiles in the Deep Coastal Sands of Western Australia,
W87-01174 2002 2F

Study of Vertical Water Transport in Soil by Naturally Abundant Isotope Tracing, (Etude de Transfert Vertical de l'eau dans un Sol par Tracage Isotopique en Abondance Naturelle),
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Stable Isotope Compositions of Fossil Mollusks from Southern California: Evidence for a Cool Last Interglacial Ocean,
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W87-08304 2010 2C

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W87-08333 2010 2F

Modelling Water Exchange and Transit Times in Till Basins Using Oxygen-18,
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Ecological Studies on Chironomids in Tokyo III. Tolerances of Two Species of Chironomid Larvae Collected From the Zempukuji River to Oxygen Deficiency,
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Oxygen Production and Comsumption in Sediments Determined at High Spatial Resolution by Computer Simulation of Oxygen Microelectrode Data,
W87-01229 2002 2L

Comparison of Summer and Winter Oxygen Consumption Rates in a Temperate Dimictic Lake,
W87-02248 2003 2H

Comparative Study of Decomposition, Oxygen Consumption and Nutrient Release for Selected Aquatic Plants Occurring in an Estuarine Environment,
W87-04833 2006 2L

Effect of Ambient Oxygen Concentration on Measurements of Sediment Oxygen Consumption,
W87-07872 2010 7B

Simple Method of Measuring Seston Respiration in Oligotrophic Lakes,
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OXYGEN SUPPLY
Alteration of the Aerobic- and Facultative Anaerobic Bacterial Flora of the A/B Purification Process Caused by Limited Oxygen Supply,
W87-06764 2009 5D

OXYGEN TRANSFER
Geometric Parameters and Efficiency of Diffused Air Systems,
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Significance of Oxygen Transfer Variables in the Sizing of Dome Diffuser Aeration Equipment,
W87-09438 2011 5D

Optimization of Mechanical Aerators in a Hydraulic Two-Phase Flow Model and the Scale-Up of the Results for the Prototype,
W87-09439 2011 5D

Biological Enhancement of Oxygen Transfer in the Activated Sludge Process,
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OXYGEN UPTAKE
Contribution of the Polychaete, Neanthes japonica (Izuka), to the Oxygen Uptake and Carbon Dioxide Production of an Intertidal Mud-Flat of the Nanakita River Estuary, Japan,
W87-00805 2001 2L

Oxygen Uptake by Excised Gills of Procambarus clarkii (Girard) from Albufera Lake of Valencia, Spain, under Heavy Metal Treatments,
W87-01221 2002 5C

Phthalate Esters Inhibit Microbial Activity in Aquatic Sediments,
W87-04131 2005 5C

OXYGENATION
Chemical Changes in a Receiving Stream Due to Oxygenation and Dilution of Mine Tailings Seep Waters,
W87-01568 2002 5B

Investigation and Discussion of Techniques for Hypolimnion Aeration/Oxygenation,
W87-09481 2011 5G

OYSTER
Magnitude and Distribution Pattern of Zinc in Oysters,
W87-01218 2002 5C

OYSTER TISSUES
Interlaboratory Comparison of Analyses for Heavy Metals in Clam Tissue,
W87-03114 2004 5A

OYSTERS
Heavy Metal Concentrations in the Oysters Saccostrea cucullata and Saccostrea sp. from the Dampier Archipelago, Western Australia,
W87-00428 2001 5C

Use of Sevin on Estuarine Oyster Beds in Tillamook Bay, Oregon,
W87-06075 2008 5G

Temporal and Spatial Variability in Zn, Cr, Cd and Fe Concentrations in Oyster Tissues (Crassostrea brasiliana Lamarck, 1819) from Sepetiba Bay, Brazil,
W87-06364 2008 5B

Computerized Assessment of Environmental Impacts in an Estuarine System,
W87-06941 2009 6G

Bringing up Oysters,
W87-07134 2009 2H

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W87-08645 2011 5A

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W87-08732 2011 5B

Metal-Binding Protein in the Pacific Oyster, Crassostrea gigas: Assessment of the Protein as a Biochemical Environmental Indicator,
W87-08885 2011 5A

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W87-09542 2011 5A

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Changes in Acid Phosphatase Activity in Tissues of Crab, Oziotelphusa senex senex, Following Exposure to Methyl Parathion,
W87-01432 2002 5C

OZONATION
Rapid, Safe Drinking Water Supply Production Method,
W87-00074 2001 5F

Aniline and Anilinium Ion Ozonation in Aqueous Solution,
W87-00387 2001 5D

Belgian Experiences in the Ozonization of Water,
W87-00388 2001 5F

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W87-00406 2001 5F

Impact of Preozonation on the Granulometric Distribution of Materials in Suspension,
W87-00407 2001 5F

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W87-00595 2001 5D

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W87-00846 2002 5F

Method for Predicting the Rate of Abiotic Degradation of Organic Chemicals in the Environment, (Eine Voraussagemethode zum abiotischen Abbauverhalten von organischen Chemikalien in der Umwelt),
W87-01334 2002 5B

Ozonation of Organic Halide Precursors: Effect of Bicarbonate,
W87-01467 2002 5F

Treatment Plant Operator Assesses Ozonation,
W87-01538 2002 5F

Prepurchasing Ozone Equipment,
W87-01539 2002 5F

Factors Controlling the Removal of Organic Pollutants in Ozone Reactors,
W87-01540 2002 5F

Ozone-GAC Following Conventional US Drinking Water Treatment,
W87-01542 2002 5F

Effects of Ozonation and Ultraviolet Irradiation on Biodegradability of Oil Shale Wastewater Organic Solutes,
W87-01556 2002 5D

Volatile Ozonization Products of Aqueous Humic Material,
W87-02409 2003 5F

Ozonation of Naphthalene in Aqueous Solution-I. Ozone Consumption and Ozonation Products (Ozonation du Naphtalene en Milieu Aqueux-I. Consommation d'Ozone et Produits de Reaction,
W87-02413 2003 5D

Ozonation of Naphthalene in Aqueous Solution-II. Kinetic Studies of the Initial Reaction Step, (Ozonation du Naphtalene en Milieu Aqueux - II. Etudes Cinetiques de la Phase Initiale de la Reaction),
W87-02414 2003 5D

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